

Telephone: 252/977-2720 Fax: 252/446-1134

March 8, 2001

U.S. Nuclear Regulator Commission Document Control Desk Mail Stop 0P1-17 Washington, DC 20555

Subject:

10CFR21 Reporting of Defects and Non-Compliance -

Engine Systems, Inc. Report No. 10CFR21-0081

Refurbished Woodward EGB governor/actuators

Dear Sir:

The enclosed report addresses a reportable defect and the corrective action to be taken by users with some refurbished Woodward EGB governor/actuators.

Should you have any questions, please feel free to call.

Please sign below, acknowledging receipt of this report, and return a copy to the attention of Document Control at the address below (or, fax to number 252/446-1134) within 10 working days after receipt.

Yours very truly,

ENGINE SYSTEMS, INC.

Susan Woolard Document Control

Please let us know if ANY of your mailing information changes - name of recipient, name of company/facility, address, etc. Mark the changes on this acknowledgment form and send to us by mail or FAX to the number above.

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Report No. 10CFR21-0081 Rev. 0: March 6, 2001

10CFR21 REPORTING OF DEFECTS AND NON-COMPLIANCE

COMPONENT	NI: Refurbished Woodward EGB governor/actuators					
SYSTEM:	Diesel generator control systems					
CONCLUSION:	Defect is reportable in accordance with 10CFR21.					
PREPARED BY	Engineering Manager					
REVIEWED BY	Quality Assurance Manager					

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DISCUSSION:

Engine Systems Inc. (ESI) has received notification about a potential problem with some refurbished Woodward EGB governor actuators. One problem was recently reported by V.C. Summer Nuclear Station, via Power Reactor Event Number 37788. Apparently, a governor experienced binding of the terminal shaft due to incorrectly applied clamping screws. ESI was not notified about this occurrence until after the Event Report was issue; therefore, ESI was not able to verify/evaluate the actual components involved. Another problem was also reported by J.A. Fitzpatrick Nuclear Plant with this governor. Operability problems were observed and an investigation revealed that the droop lever pivot pin retaining rings were omitted during reassembly of the governor. Due to the missing retaining rings, the pins eventually backed out, releasing the droop lever. This caused the mechanical speed setting to drop and interfere with electric governor operation (limited load carrying capability). A parts breakdown for the EGB is provided in Exhibit 1 with the above parts annotated.

Both governor refurbishments orders were processed by ESI and the refurbishment activity occurred at Woodward. Further investigation by ESI, with cooperation from Woodward, has determined that both EGB's were assembled by the same technician within Woodward's mechanical repair department. Woodward has determined that this individual worked on a total of seven (7) nuclear governors (all were EGB's) between October 1999 and August 2000. Activity is limited to refurbished units only.

COMPONENTS AND CUSTOMERS AFFECTED:

Woodward EGB governor actuators refurbished between October 1999 and August 2000. Not all refurbishments during this period are suspect, only those handled by one (1) Woodward repair technician are of concern. These are listed below:

Woodward Customer	Cust PO to Woodward	End-user & End-user Purchase Order	Part Number and type	Serial Number
Cooper	3921N6317	*Unknown at this time	9903-008	2019337
Bessemer			(EGB-10C)	
Cooper	3921N6220	*Unknown at this time	9903-505	11493336
Bessemer	:		(EGB-35P)	
New York	4500012418	NYPA – Indian Point	9903-152	880894
Power Auth.		Direct / P.O. 4500012418	(EGB-35C)	
South Texas	07142	South Texas Project	9903-483	1547640
Project (STP)		Direct / P.O. 07142	(EGB-50P)	
ESI	38378	SCE&G - V.C Summers	9903-036	1391786
		P.O. SR707715	(EGB-50C)	
ESI	38590	NYPA – Fitzpatrick Plant	D9903-173	2185499
		P.O. 4500017657	(EGB-13C)	
ESI	40239	FP &L - Turkey Point #3.	9903-564	2272578
		P.O. 00044413	(EGB-13P)	

^{*} ESI has contacted Cooper to determine which sites received these units. Once this information is received, ESI will send notification to the affected users.

CORRECTIVE ACTION:

ESI recommends returning the suspect governors to ESI for a completed tear-down inspection. ESI will reassemble and functionally test to Woodward specifications. NOTE: Even though the V.C Summer governor screw length issue was corrected, we still recommend a complete tear-down to verify all refurbishment activity is within specifications. The Fitzpatrick unit (s/n 2185499) was recently returned to ESI to replace the missing terminal shaft retaining rings. A complete tear-down inspection was performed at that time; no further action on this governor is required. Contact ESI's Customer Service Department for return instructions.

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EXHIBIT 1

EGB PARTS BREAKDOWN

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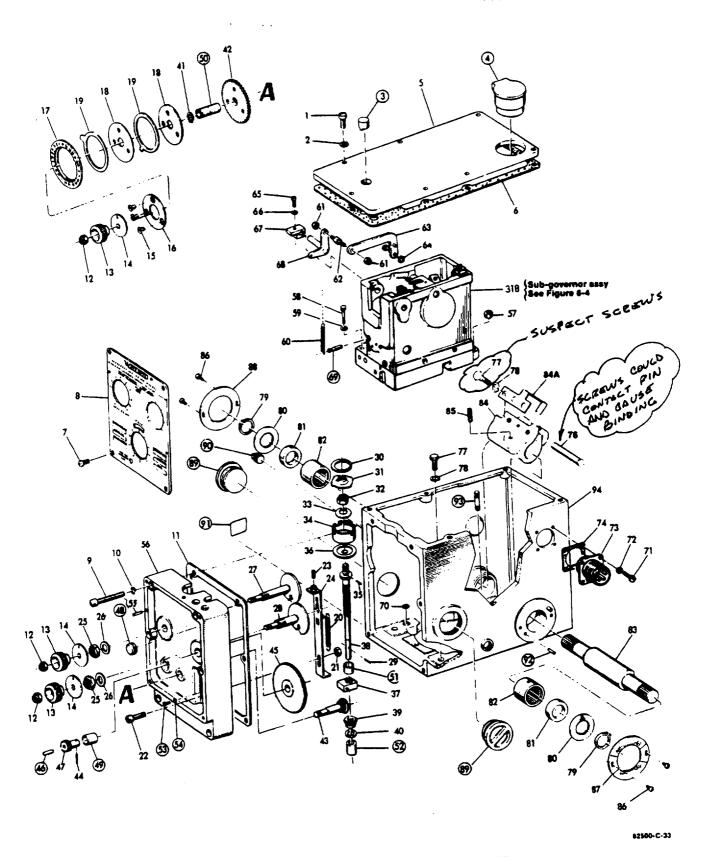


Figure 6-5. Column Assembly Parts for EGB-10P, 13P

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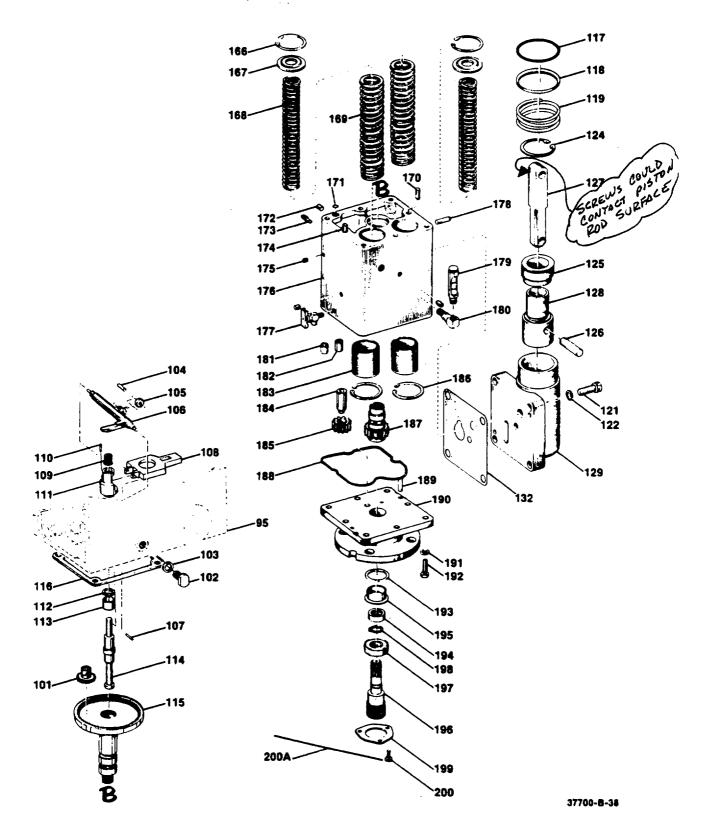


Figure 6-6. Power Case, Power Piston for EGB-10P, 13P

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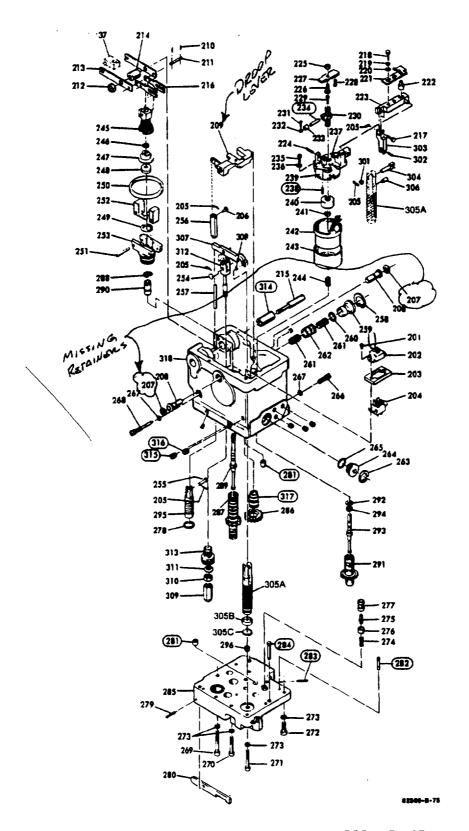


Figure 6-7. Sub-Governor Parts, EGB-10P, 13P